Davis Wind Wizard™ |

Reads wind speed in mph (0-60 mph), m/s (0-26.8 m/s), Beaufort. Readout dial is supported on sapphire jewel bearings and steadied by a rare-earth magnet dampening system. Exceptional accuracy. Folding handle quickly and securely latches into place. No batteries needed. Dimensions: 3 5/8" x 2 7/8" x 1" with handle folded. Weight 2.5 oz. Comes with protective vinyl case and wrist lanyard.

Order No.	Mfg. PN	Description	Price
E86010	281	Wind Wizard	$49.00

Skymate Weather Meter |

This handheld affordable weather meter will not only give you the wind speed, but also temperature and wind chill. Wind speed options include mph, kph, knots, f/m, and beaufort with a range of .5 - 89 mph. Wind speed can be measured by current, maximum or average. The temperature can be read in either Fahrenheit or Centigrade. Current temperature and wind chill reads in tenths with a data lock feature. Temperature range is 5 to 122 F°. Includes a 400 hour Lithium battery with an auto shutdown mode after 20 minutes for longer battery life.

Order No.	Mfg. PN	Description	Price
E86013	SM-18	Skymate Weather Meter	$139.00

Davis Turbo Meter™ |

Reads wind speed in mph, knots, f/m, or m/s. Turbine suspended on sapphire jewel bearing responds to the lightest winds. Three digit display (99.9 maximum readout) offers excellent viewing contrast in bright sunlight or at night. Requires 3 AAA alkaline batteries (not included). Exceptional accuracy. Comes with vinyl case and attached wrist lanyard. Dimensions: 4 5/8" x 2 5/8" x 1 1/8"
Weight: 3 oz. (not including batteries).

Order No.	Mfg. PN	Description	Price
E86011	271	Turbo Meter	$165.00

WindMate™ 300 |

With the added relative humidity feature, this handheld weather meter can also be used when drying grain. The relative humidity range is 0 to 99% with a +/- 3% accuracy. Wind speed options include mph, kph, knots, f/m and beaufort with a range of .5 – 89 mph. Wind speed can be measured by current, maximum or average. The temperature can be read in either Fahrenheit or Centigrade. Current temperature and wind chill reads in tenths with a data lock feature. Temperature range is 5 to 122 F°. Includes a 400 hour Lithium battery with an auto shutdown mode after 20 minutes for longer battery life.

Order No.	Mfg. PN	Description	Price
E86014	WM300	WindMate 300 Weather Meter	$229.00

Weather Wizard III Station |

The Weather Wizard III displays indoor and outdoor weather conditions at the touch of a button. Large display includes compass rose which shows continuously updated wind speed, wind direction, inside and outside temperature, and wind chill. Station includes anemometer with 40' cable and external temperature sensor with 25' cable. Cables are connected to the console through a junction box with 8' of cable. Console includes AC power adapter with battery backup.

Kit includes the Weather Wizard III Station but features daily and accumulated rainfall as well. The self-emptying tipping bucket rain collector is included.

Order No.	Mfg. PN	Description	Price
E86020	7425	Weather Wizard III Station without Rain Collector	$195.00
E86022	7425CS	Weather Wizard III Complete Kit with Rain Collector	$250.00
E86023	7970	Weather Wizard III Replacement Console	$150.00

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Introducing the wireless Vantage Vue |

Perfect for the home weather-watcher

Affordable **$395.00**

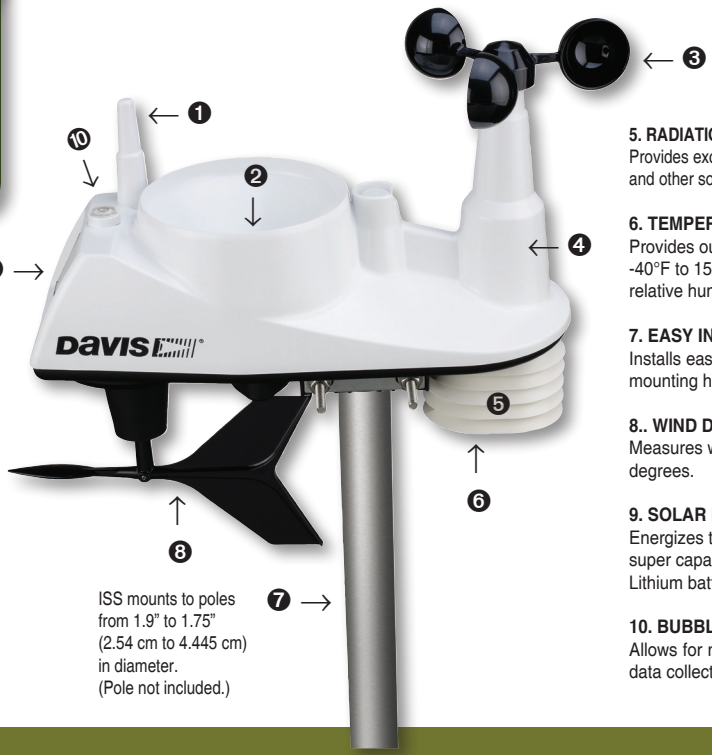
Multiple features included at an affordable price....only $395.00!

Wireless range up to 1,000 ft.

The Vantage Vue gives you all the weather data you need on an easy-to-read 3" x 4 3/8" LCD screen. The outdoor sensor suite sets up in minutes and starts sending data wirelessly to your console. You'll see current weather conditions, including indoor and outdoor temperature and humidity, barometric pressure, wind speed and direction, dew point and rainfall. You'll also get weather forecast icons, moon phase, sunrise/sunset times, graphing of weather trends, alarms and more. Vantage Vue also boasts the innovation Weather Center button that displays additional data on weather variables for today and over the last 25 days.

The sensor suite transmits wirelessly to the console. With a range of up to 1,000 feet (300 m), the Vantage Vue data packets are sent every 2.5 seconds to the console. Because Vantage Vue's radio transmitters are radio-compatible with the Vantage Pro2, you can mix and match components. For example, add a Vantage Vue console to your Vantage Pro2 system or extend your wireless range with long and short repeaters. They all work seamlessly.

Order No.	Mfg. PN	Description	Price
E86209	6250	Vantage Vue Kit	$395.00
E86210	6351	Vantage Vue Console	$195.00
E86503	7717	Mounting Pole	$ 35.00



1. WIRELESS
Frequency-hopping spread spectrum radio ensures consistent transmission up to 1,000' (300 m) from integrated sensor suite to console.

2. RAIN COLLECTOR
Self-emptying tipping spoon measures rain with .01" (0.2mm) resolution.

3. ANEMOMETER
Vantage Vue records wind speeds as low as 2 mph (3 km/h) and as high as 150 mph (241 km/h).

4. WEATHER PROOF COVER
Corrosion-resistant cover provides durability in extreme conditions. Electronics are potted or over-molded for added moisture shielding.

ISS mounts to poles from 1.9" to 1.75" (2.54 cm to 4.445 cm) in diameter. (Pole not included.)

5. RADIATION SHIELD
Provides excellent protection from solar radiation and other sources of radiated and reflected heat.

6. TEMPERATURE/RELATIVE HUMIDITY
Provides outside temperature readings from -40°F to 150°F (-40°C to 65°C). Also measures relative humidity from 0 to 100%.

7. EASY INSTALLATION
Installs easily and quickly with included mounting hardware kit.

8.. WIND DIRECTION
Measures wind direction in compass points or degrees.

9. SOLAR PANEL
Energizes the station during the day. On-board super capacitor provides power at night. Lithium battery provides backup when needed.

10. BUBBLE LEVEL
Allows for more accurate installation and better data collection.

Order by Phone 1-800-667-8001
Order On-Line www.farmtronics.com

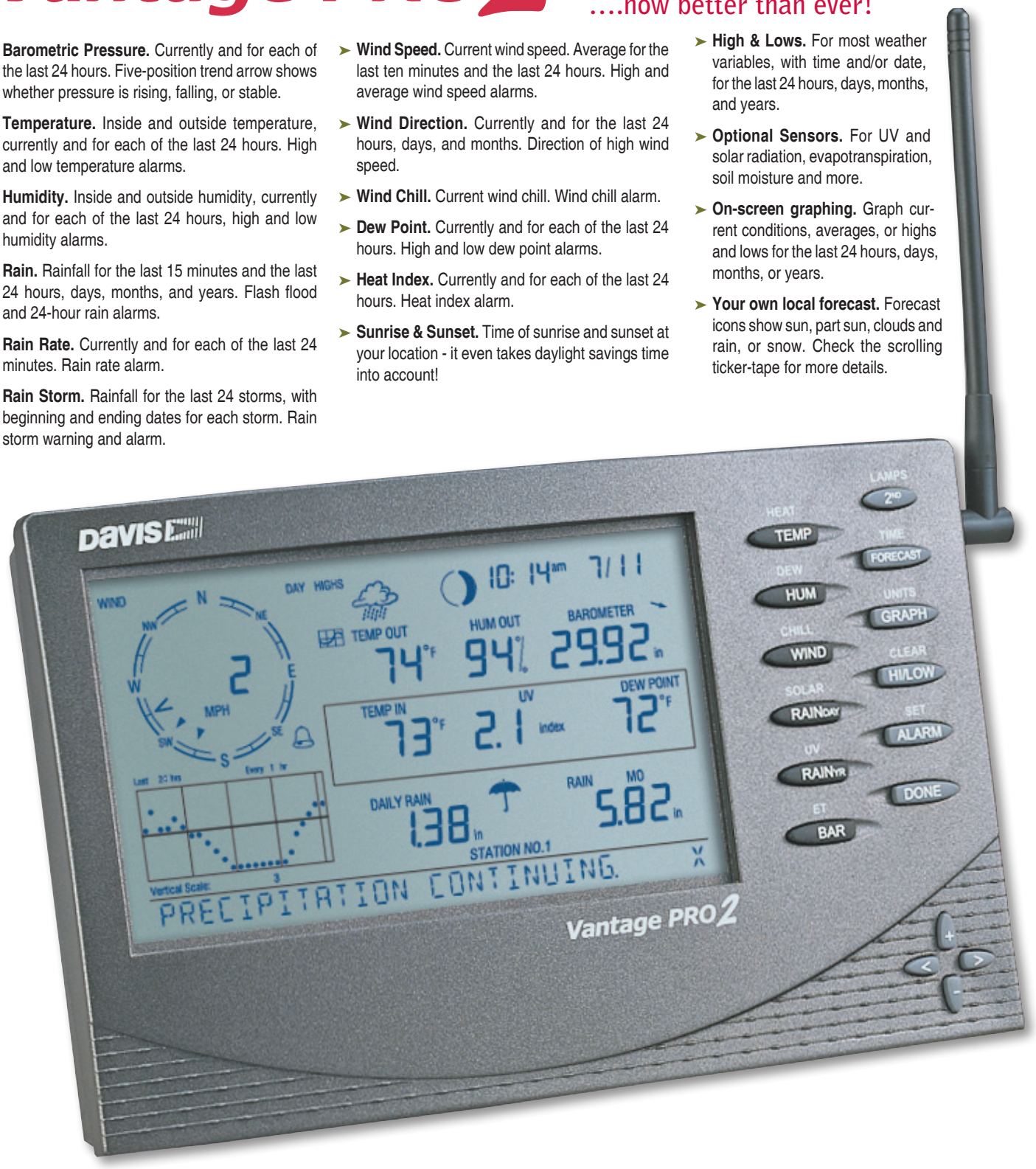
Professional and rugged.

Vantage PRO2™

Davis Instruments

....now better than ever!

- **Barometric Pressure.** Currently and for each of the last 24 hours. Five-position trend arrow shows whether pressure is rising, falling, or stable.
- **Temperature.** Inside and outside temperature, currently and for each of the last 24 hours. High and low temperature alarms.
- **Humidity.** Inside and outside humidity, currently and for each of the last 24 hours, high and low humidity alarms.
- **Rain.** Rainfall for the last 15 minutes and the last 24 hours, days, months, and years. Flash flood and 24-hour rain alarms.
- **Rain Rate.** Currently and for each of the last 24 minutes. Rain rate alarm.
- **Rain Storm.** Rainfall for the last 24 storms, with beginning and ending dates for each storm. Rain storm warning and alarm.
- **Wind Speed.** Current wind speed. Average for the last ten minutes and the last 24 hours. High and average wind speed alarms.
- **Wind Direction.** Currently and for the last 24 hours, days, and months. Direction of high wind speed.
- **Wind Chill.** Current wind chill. Wind chill alarm.
- **Dew Point.** Currently and for each of the last 24 hours. High and low dew point alarms.
- **Heat Index.** Currently and for each of the last 24 hours. Heat index alarm.
- **Sunrise & Sunset.** Time of sunrise and sunset at your location - it even takes daylight savings time into account!
- **High & Lows.** For most weather variables, with time and/or date, for the last 24 hours, days, months, and years.
- **Optional Sensors.** For UV and solar radiation, evapotranspiration, soil moisture and more.
- **On-screen graphing.** Graph current conditions, averages, or highs and lows for the last 24 hours, days, months, or years.
- **Your own local forecast.** Forecast icons show sun, part sun, clouds and rain, or snow. Check the scrolling ticker-tape for more details.



Vantage Pro2™ offers the professional weather observer and the serious weather enthusiast rugged performance and a wide range of options and sensors. You'll get your own local forecast, highs and lows, totals or averages, and graphs for virtually all weather variables over the past 24 days, months or years—all without using a PC. Vantage Pro2 is also an excellent choice for emergency professionals, farmers, schools, researchers, municipalities, and others to monitor wind and moisture conditions, irrigation requirements, and potential flooding.

All Vantage Pro2 stations include a console and a versatile integrated sensor suite that combines the rain collector, temperature and humidity sensors and anemometer into one package. You can customize your Vantage Pro2 by adding consoles or the special-purpose options shown on the following pages. Vantage Pro2 weather stations are available in both wireless and cabled versions.

E86102 (6152C) Cabled Vantage Pro2

E86202 (6152) Wireless Vantage Pro2

E86204 (6162) Wireless Vantage Pro2 Plus

Cabled Vantage Pro 2 |

Includes Vantage Pro2 console, integrated sensor suite, mounting hardware, and AC-power adapter. Integrated sensor suite includes rain collector, temperature and humidity sensors, anemometer, and 40' (12 m) anemometer cable. A 100' (30 m) cable connects the sensor suite to the console.

Cabled Vantage Pro2 Plus

(6162C) All the features of the Vantage Pro2 Cabled station PLUS pre-installed UV and solar radiation sensors.

Order No.	Mfg. PN	Description	Price
E86102	6152C	Cabled Vantage Pro2	$495.00
E86104	6162C	Cabled Vantage Pro2 Plus	$895.00

Wireless Vantage Pro 2 |

First and only weather station in its class to use frequency-hopping spread spectrum radio technology to transmit weather data wirelessly up to 1000' (300m). Wireless range is up to 1000' (300m) outdoors, line of sight. Typical range through walls under most conditions is 200' to 400' (60 to 120m). Add wireless repeaters for distances up to 1.7 miles (2.7 km). It can be customized with a range of add-on options, such as solar and UV radiation sensors, soil moisture stations, and long and short-range repeaters.

Includes Vantage Pro2 console/receiver, integrated sensor suite, and mounting hardware. Integrated sensor suite includes rain collector, temperature/humidity sensors, anemometer, 40' (12m) anemometer cable, and solar panel. Electronic components are housed in a weather-resistant shelter. Temperature and humidity sensors are enclosed in a standard radiation shield. The shield protects against solar radiation and other sources of radiated and reflected heat.

Wireless Vantage Pro2 with 24-Hour Fan Aspiration Shield

(6153) With all the components as the Wireless Vantage Pro2 but comes equipped with a 24-Hour Fan-Aspiration Shield for maximum accuracy of temperature & humidity readings.

Wireless Vantage Pro2 Plus

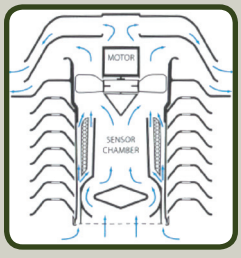
(6162) All the features of the Wireless Vantage Pro2 PLUS pre-installed UV and solar radiation sensors.

Wireless Vantage Pro2 Plus with 24-Hour Fan Aspiration Shield

(6163) With all the components as the Wireless Vantage Pro2 Plus but also comes equipped with a 24-Hour Fan-Aspiration Shield for maximum accuracy of temperature & humidity readings.

Order No.	Mfg. PN	Description	Price
E86202	6152	Wireless Vantage Pro2	$595.00
E86204	6162	Wireless Vantage Pro2 Plus	$995.00
E86206	6153	Wireless Vantage Pro2 with 24-Hour Fan-Aspirated Shield	$795.00
E86208	6163	Wireless Vantage Pro2 Plus with 24-Hour Fan-Aspirated Shield	$1,195.00

24 -Hour Fan-Aspirated Radiation Shield



Models 6153 and 6163 include a 24-hour fan-aspirated radiation shield for maximum accuracy of temperature and humidity readings. A motor-driven fan draws air through the sensor chamber, 24 hours a day, 7 days a week. Airflow across the sensors is 500 feet per minute (2.5 m/s). At night, when the effects of radiation are less, the solar-powered model runs on battery power and the air flow is 280 feet per minute (1.4 m/s). In far northern or southern latitudes, or in areas with extended periods of heavy cloud cover, there may not be enough sunshine to power the fan or recharge the batteries during the winter. However, as the level of sunlight goes down, the need for fan aspiration also diminishes. The fan will start running and the battery will recharge as soon as sufficient sunlight returns.

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Solar Radiation Sensor |

Measures solar radiation and solar energy. Solar radiation is required (along with an anemometer and a temperature/humidity sensor) if you wish to monitor evapotranspiration. Diffuser element and housing are carefully designed for accurate cosine response. Silicon photo diode provides good match to solar spectrum. Two piece housing minimizes radiation heating, allows convection cooling of the sensor, and prevents the trapping of water or dust. Includes 3' cable. Compatible with Vantage Pro and Vantage Pro2.

Order No.	Mfg. PN	Description	Price
E86328	6450	Solar Radiation Sensor	$160.00

UV Sensor |

Measures the sun burning of the UV spectrum. Allows you to display UV index, dose rate, and daily and accumulated dose. Diffuser provides excellent cosine response. Two-piece housing minimizes radiation heating, allows convection cooling of the sensor, and prevents the trapping of water or dust. Includes 3' cable. Compatible with Vantage Pro and Vantage Pro2.

Order No.	Mfg. PN	Description	Price
E86330	6490	UV Sensor	$350.00

Daytime Fan-Aspirated Radiation Shield Kit |

An economical solution for adding the benefits of fan aspiration to your wireless or cabled Vantage Pro2 or Pro2 Plus. Half the cost of a 24-Hour Fan-Aspirated radiation shield, but nearly 75% as effective in reducing the effects of daytime radiation. Solar-powered fan runs during the day. Since there is no backup battery, the fan will cease running when night falls and the effects of radiation are less. Kit includes fan, solar panel, additional radiation shield places, and hardware. Photo shows the kit as installed on a wireless Vantage Pro2. Note that this kit is not compatible with the original Vantage Pro stations.

Order No.	Mfg. PN	Description	Price
E86332	7747	Daytime Fan-Aspirated Radiation Shield Kit	$135.00
E86333	7758	Standard Fan Motor Kit	$ 45.00

Anemometer Transmitter Kit |

Solar-powered kit for use with wireless Vantage Pro2 or Vantage Pro2 Plus. Allows you to mount the anemometer in a different location than the rain collector and the rest of the integrated sensor suite, up to 1000' (300 m) away from the console receiver. For longer distances, add one or more wireless repeaters. Kit includes transmitter inside weather-resistant shelter, solar panel, battery, and mounting hardware.

Order No.	Mfg. PN	Description	Price
E86334	6332	Anemometer Transmitter Kit for Vantage Pro2	$195.00

Rain Collector Heater |

For use in cold climates to measure freezing rain or the moisture content of snowfall. Requires access to AC power; may not be run using a solar panel kit. Includes 24 watt, 24 volt heater with thermal cut-off switch, control unit, insulating reflective blanket, and 50' cable. Compatible with Vantage Pro and Vantage Pro2.

Order No.	Mfg. PN	Description	Price
E86027	7720	Rain Collector Heater	$195.00

Sensor Mounting Shelf |

For mounting Vantage Pro UV and/or solar radiation sensors. Powder-coated aluminum shelf with iodized posts and stainless steel hardware attaches easily to outside of integrated sensor suite.

Order No.	Mfg. PN	Description	Price
E86504	6673	Sensor Mounting Shelf	$30.00

Mounting Pole Kit |

Optional mounting pole kit includes two galvanized steel poles, connector, and mounting hardware. Poles measure 19 ½" (0.50 m) and 21" (0.53 m) long. Assemble the two together to make a single 37 ½" (0.95 m) long pole. Outside diameter is 1 5/16" (33 mm).

Order No.	Mfg. PN	Description	Price
E86503	7717	Mounting Pole Kit	$35.00

Mounting Tripod |

Makes installation even easier. Brackets at the base of legs tilt to mount on roof or uneven terrain.

Order No.	Mfg. PN	Description	Price
E86502	7716	Mounting Tripod	$75.00

Multi-Purpose Shelter |

Use to shelter any of the following sub-systems:

- Weather Envoy with WeatherLink data logger
- Weather Wizard III or Weather Monitor II console with WeatherLink data logger and protected junction box.
- Measures 3¾" x 9½" x 12½" (95x240x320 mm)

Order No.	Mfg. PN	Description	Price
E86506	7728	Multi-Purpose Shelter	$95.00

Complete System Shelter |

To locate your station console and other components outside, at a field or remote location. Weather-resistant NEMA 4X enclosure provides protection from the elements for the Vantage Pro2 and Vantage Vue console or console/receiver with WeatherLink data logger. Measures 15 ½" x 7¾ x 13½" (395 x 195 x 345 mm)

Order No.	Mfg. PN	Description	Price
E86505	7724	Complete System Shelter	$295.00

Receive data directly from the outdoor sensor - no console required!

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Shown with WeatherLink data logger installed.

Receive data from a Vantage Pro2 or Vantage Vue integrated sensor suite or special-purpose station, and post it to your computer—no console required! Weather Envoy, when used along with WeatherLink, will collect and store data from the outdoor sensors. Download to your computer at your convenience, then use the WeatherLink software to view current conditions, graph and chart historical data, or even create your own weather web pages.

Weather Envoy™

Weather Envoy includes its own barometer and inside temperature/humidity sensors. Both the wireless and cabled versions include an AC-power adapter. Either may also be run using a solar power kit. The wireless model may also be run using three AAA batteries. Batteries will last up to six months, depending on the logging interval. Batteries should also be added to the cabled model for backup during power outages. Requires WeatherLink data logger and software package (not included).

Order No.	Mfg. PN	Description	Price
E86122	6316C	Cabled Envoy 2	$165.00
E86222	6316	Wireless Envoy 2	$195.00

Integrated Sensor Suite			
For use with Weather Envoy and WeatherLink. Includes all the features of the Vantage Pro2 or Pro2 Plus integrated sensor suites shown on Pages 92-93.			
Order No.	Mfg. PN	Description	Price
E86132	6322C	Cabled Integrated Sensor Suite w/Standard Radiation Shield	$275.00
E86133	6327C	Cabled Integrated Sensor Suite Plus with UV and Solar Radiation Sensor w/Standard Radiation Shield	$675.00
E86232	6322	Wireless Integrated Sensor Suite w/Standard Radiation Shield	$325.00
E86233	6327	Wireless Integrated Sensor Suite Plus with UV and Solar Radiation Sensor w/Standard Radiation Shield	$725.00

Sensor Suites also available with fan-aspirated radiation shield.

Wireless Temperature/ Humidity Station

Battery-powered station includes temperature and humidity sensors inside protective radiated shield, and transmitter and lithium battery inside weather-resistant shelter. Expected battery life is six to nine months. To view the data, add a wireless Vantage Pro2 console/receiver or Weather Envoy and WeatherLink. Includes hardware for mounting on fence post or pole. Mounting pole is not included.

Order No.	Mfg. PN	Description	Price
E86306	6382	Wireless Temperature/Humidity Station	$250.00

Wireless Temperature Station

Battery-powered station includes stainless steel temperature probe with 12' (3.6 m) cable, transmitter and battery inside weather-resistant shelter, and mounting hardware. To view the data, add a wireless Vantage Pro2 console/receiver, or Weather Envoy and WeatherLink. Expected battery life is six to nine months.

Order No.	Mfg. PN	Description	Price
E86308	6372	Wireless Temperature Station	$195.00

Add special-purpose stations or sensors.

Build your own customized weather station by adding one or more options or special-purpose stations. Each wireless Vantage Pro2 console/receiver can receive data from up to eight different transmitting stations. Start with either the wireless Vantage Pro2 or Vantage Pro2 Plus stations (which include both the console and the integrated sensor suite), and add up to seven Temperature or Temperature/Humidity Stations. Or buy the Vantage Pro2 console alone (without the integrated sensor suite), and add up to eight special-purpose stations of your choice.

MAXIMUM # of each station type. Total number of stations cannot exceed 8.		
Transmitting Station	Show on Console	Logged by WeatherLink
Integrated Sensor Suite	1	1
Anemometer Transmitter Kit	1	1
Leaf & Soil Moisture/Temperature	2*	2*
Temperature Station	8	3**
Temperature Humidity Station	8	2

* One fully populated station or two partially-populated stations;
** WeatherLink will log a maximum of 3 Temperature Stations or 1 Temperature Station and 2 Temperature/Humidity Stations.

Wireless Leaf & Soil Moisture / Temperature Station

Solar-powered station includes transmitter and battery inside weather-resistant shelter. To view the data, add a wireless Vantage Pro2 console/receiver, or Weather Envoy and Weatherlink. Each can receive data from either:

- A single fully-populated station with two leaf wetness sensors, four soil moisture sensors and four temperature probes, or
- Two partially-populated stations, one with two leaf wetness sensors, and two temperature probes, and the other four soil moisture sensors and four temperature probes.

Available in two models. Choose the model without sensors, and add only those you need to meet your requirements. Or choose the Complete Soil Moisture/Temperature Station, and add one or two leaf wetness sensors as desired.

Order No.	Mfg. PN	Description	Price
E86302	6345	Wireless Leaf & Soil Moisture/Temperature Station without Sensors	$225.00
E86304	6345CS	Wireless Soil Moisture/Temperature Station with 4 soil moisture sensors and 4 temperature probes	$595.00

Leaf Wetness Sensor

Use to monitor the level of surface moisture on foliage, with range from 0 (completely dry) to 15 (saturated). Add up to two sensors to a single Wireless Leaf & Soil Moisture/Temperature Station. Includes 40' cable. Compatible with Vantage Pro and Vantage Pro2.

E86322	6420	Leaf Wetness Sensor	$125.00

Soil Moisture Sensor

Watermark® soil moisture sensor uses electrical resistance to measure the moisture level of the soil. Does not require periodic maintenance during the growing season. Simply bury at the desired depth, then monitor moisture levels throughout the season. Add up to four sensors to a single Leaf and Soil Moisture/Temperature Station. Includes 15' cable. Compatible with Vantage Pro and Vantage Pro2.

E86324	6440	Soil Moisture Sensor	$55.00

Stainless Steel Temperature Probe

Multi-purpose temperature probe with 2 1/2" long stainless steel housing. Use to measure temperature of air, soil or water. Add up to four probes to a single Leaf & Soil Moisture/Temperature Station. Includes 15' direct - burial cable. Compatible with Vantage Pro and Vantage Pro2.

E86326	6470	Stainless Steel Probe	$50.00

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Extend the range of your wireless station for miles on end!

For longer distances or to improve reception in troublesome areas, add one or more wireless repeaters. Use up to four repeaters in a daisy chain, retransmitting from a single Vantage Pro2 or Vantage Vue integrated sensor suite or special-purpose station. Or build a network of up to four repeaters and eight wireless stations, with some repeaters listening to multiple stations, each with their own unique ID. For use with a wireless Vantage Pro2 or Vantage Vue console/receiver or Weather Envoy with a firmware date of May 2005 or later. To use a repeater with one of these stations manufactured before that date, update the firmware using a Vantage Pro2 Updater.

Long-Range Wireless Repeaters

Davis Instruments has achieved an incredible four miles (6.4 km) of transmission distance using two new long-range repeaters with Yagi antennas. You may not achieve quite the same results, since range is highly variable depending on antenna height, the terrain and foliage, buildings and other man-made structures, and RF interference. But you should be impressed! Ideal for agricultural or research applications where long distances are an issue. AC-powered model includes power adapter. Solar-powered model includes solar panel and lithium backup battery. Antennas are sold separately. For use with Vantage Pro2 and Vantage Vue.

Order No.	Mfg. PN	Description	Price
E86341	7653	Long-Range Repeater AC-Powered	$235.00
E86342	7654	Long-Range Repeater Solar-Powered	$285.00

Antenna Combination	Multiplier	Maximum Transmission Distance under optimal conditions**		
Dipole - Dipole*	1.00	1000'	0.2 mile	300 m
Dipole - Omni	1.58	1560'	0.3 mile	475 m
Dipole - Yagi	3.16	3160"	0.6 mile	950 m
Omni - Omni	2.50	2500'	0.5 mile	750 m
Omni - Yagi	5.00	5000'	1.0 mile	1500 m
Yagi - Yagi	10.00	10,000'	1.9 mile	3000 m

* Dipole antennas are found on all of the wireless weather stations and on our standard repeaters.
** Typical distance will be less. Outdoors, line of sight with minor obstructions or interference, typical distance is about 0.50 to 0.80 times the maximum. Through walls or in areas with high RF interference, typical distance may be as low as 0.20 to 0.40 times the maximum.

Antennas for Long-Range Repeaters

For use with long-range repeaters. Each repeater requires two antennas: one to receive the data, and another to retransmit it. Omni antennas transmit or receive in all directions. Yagi antennas transmit or receive from a single direction, but have a longer transmission distance. Mix or match to suit your needs; use the chart to determine the distance you'll be able to achieve depending on the antennas used. For use with Vantage Pro2 and Vantage Vue.

Order No.	Mfg. PN	Description	Price
E86345	7656	Omni Antenna	$175.00
E86346	7660	Yagi Antenna	$150.00

Vantage Pro2 Updater

Take advantage of the latest developments with our Vantage Pro2 Updater. Simply plug it into the port on your Vantage Pro2 console or Weather Envoy and press the start button. Your console or Envoy will be automatically updated with the latest version of our firmware. Future updates may be downloaded from the Davis website at no charge.

Order No.	Mfg. PN	Description	Price
E86440	6311VP2	Vantage Pro2 Updater	$155.00

Standard Wireless Repeaters |

Ideal for most applications. Uses the same dipole antenna found on all of wireless stations. Range is up to 1000' (300 m) outdoors, line of sight. Typical range through walls under most conditions is 200' to 400' (60 to 120 m). AC-powered model includes power adapter. Solar-powered model includes solar panel and lithium backup battery. For use with Vantage Pro2 and Vantage Vue.

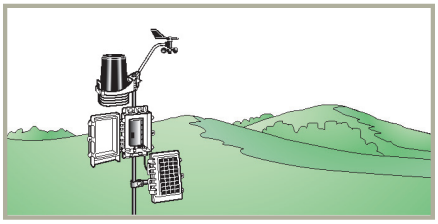
Order No.	Mfg. PN	Description	Price
E86343	7626	Wireless Repeater w/AC	$185.00
E86344	7627	Wireless Repeater w/Solar Panel	$235.00

Vantage Vue and Vantage Pro2 Console/Receivers |

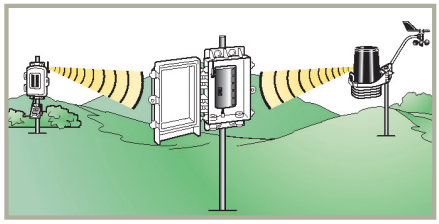
Add additional Vantage Pro2 or Vantage Vue consoles to display weather data in the den, bedroom, kitchen, or even in your neighbor's house, if it's closer than 1,000 ft. (300 m). Vantage Vue transmitters are radio-compatible with Vantage Pro2 so you can mix and match components. Receive data directly from the outdoor sensors or use as a repeater, retransmitting the data from one console/receiver to another, extending range up to another 1,000 ft. (300 m). With Vantage Pro2 only, an additional console can receive data directly from any of the special-purpose wireless outdoor sensors.

Order No.	Mfg. PN	Description	Price
E86212	6312	Wireless Vantage Pro2 Console	$295.00
E86112	6312C	Cabled Vantage Pro2 Console	$245.00
E86210	6351	Vantage Vue Console	$195.00

Solar Power Kits |



Cabled Field Station.
With Multi-Purpose Shelter and E86142 Solar Power Kit.



Wireless Field Station.
Run on batteries or add our E86242 Solar Power Kit.

Cabled Vantage Pro2 or Cabled Weather Envoy

Powers both the console (or Weather Envoy) and the outdoor sensors. Includes solar panel, regulator circuit, rechargeable battery, and 16' (4.9 m) cable.

E86142	7707	Solar Power Kit	$395.00

Wireless Vantage Pro2, Vantage Vue or Weather Envoy

Powers the wireless console/receiver or Weather Envoy. (Outdoor sensors are powered by the solar panel that is included with the station.) Includes solar panel, regulator circuit, rechargeable battery, and 20' (6 m) cable.

E86242	6610	Solar Power Kit	$225.00

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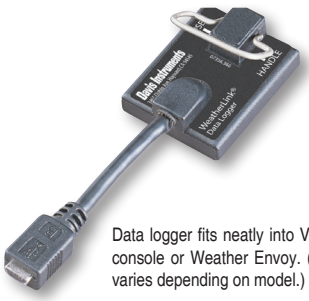

Data logger fits neatly into Vantage Pro2 console or Weather Envoy. (Appearance varies depending on model.)

Sharing Your Weather Data

- **Create Your Own Reports.** Data can be exported to most popular spreadsheets, databases, and word processing programs.
- **Weather Website.** Create your own weather website or post weather conditions to a LAN. Add graphs, text lines, or scrolling ticker tapes, and upload other files (such as webcam images) along with weather data.
- **Weather World Round.** Send your URL to news@davisnet.com and they will add it to their growing list of Davis stations around the world.

WeatherLink Software

For the ultimate in weather monitoring, add WeatherLink® to any of the Davis weather stations. The data logger fits neatly into the weather station console or Weather Envoy, storing weather data even when it is not connected to your PC. Later, download the data and use the software for detailed analysis and graphing.

Data Storage & Transfer

✓ **User-Selectable Storage Interval.** Choose 1, 5, 10, 15, 30, 60, or 120 minutes. Store up to six months worth of data depending on the storage interval. (Up to four months for Perception II, Wizard III, or Monitor II.)

✓ **Standard Data Logger Models.** Log and store data, even when the data logger is not connected to your PC. Transfer the data as often as you like, or leave the software running to transfer it automatically each day.

✓ **Alarm Output & Irrigation Control Models.** Include the standard data logger plus a connector block that allows you to connect your Vantage Pro2 console or Weather Envoy to your irrigation system or to a heater, fan, or other device.

✓ **Streaming Data Logger Models.** Provide a continuous stream of data to a PC or a ham radio with a TNC modem. At the same time, they'll log and store the data for later download — just like the standard data loggers!

Expanded Reporting

✓ **More Weather Data.** View weather information not available on the console, including heating degree days, cooling degree days, and fuel-oil demand.

✓ **Optional Sensor Reporting.** With optional UV and solar radiation sensors, get details on sunburn risk and solar energy.

✓ **Forecast & Moon Phase.** With the Vantage Pro2 and Vantage Vue, you can see the forecast and moon phase right on the console. But now even Wizard III owners can get the latest forecast and view the phases of the moon using WeatherLink.

WeatherLink Software			
Order No.	Mfg. PN	Description	Price
E86402	6510SER	Vantage Pro/Pro2, Vantage Vue WeatherLink for Windows Serial Port	$165.00
E86404	6510USB	Vantage Pro/Pro2, Vantage Vue WeatherLink for Windows USB Port	$165.00
E86406	6520	Vantage Pro/Pro2, Vantage Vue WeatherLink for Mac OSX	$165.00
E86408	7862	WeatherLink Windows for Wizard III, Monitor II, Perception II	$165.00
E86411	6510X	WeatherLink Windows Extra User Licence Kit, 6510SER, 6510USB, 6540, 6544, 6550, 6555, 6560	$ 25.00
E86420	08434	USB to Serial Cable	$ 20.00

WeatherLinkIP™

Now you can post your weather data directly to the Internet without a PC! Not a web guru? Don't worry—this newest version of WeatherLink does all the work for you. Simply plug the data logger into the back of your Vantage Pro2 or Vantage Vue console or Weather Envoy and connect the cable to your cable/DSL router. Within minutes, you'll be able to see your weather data live on the Internet.

Order No.	Mfg. PN	Description	Price
E86409	6555	WeatherLinkIP	$295.00

Agricultural / Turf Management Software Module |

Optional software module adds specialized reports for farmers, growers, and turf managers with user-defined growing season and 24-hour period. You'll get evapotranspiration, chilling requirement, leaf wetness hours, and soil temperature hours — all with user-entered thresholds, and starting and ending dates. Plus growing degree days and temperature-humidity hours (with user-entered names of crops, pests, or diseases) and crop water management (with irrigation values and user-entered K-factor profiles).

Some reports require the use of optional sensors. Not for use with WeatherLink for Mac. For use with WeatherLink models 6510USB, 6510SER, 6540, 6544, 6550, 6560, or 7862.

Order No.	Mfg. PN	Description	Price
E86430	6511	Agricultural/Turf Management Module	$95.00

Irrigation Control with Connector Block |

Use your Vantage Pro2 or Vantage Vue weather station to turn your irrigation system on or off. Connects to most common irrigation systems, including Rain Bird, Rain Master, and Toro. For the industrial controllers, it provides electronic pulses for wind, rain, and ET (evapotranspiration). Homeowners can look at rain and ET values to determine when to inhibit watering. Can also set console alarms to inhibit watering when temperatures are too low or winds to high. ET monitoring requires solar radiation sensor. Connection to PC is not required except for initial setup.

Order No.	Mfg. PN	Description	Price
E86434	6560	Irrigation Control	$295.00

Alarm Output with Connector Block |

Now you can turn heaters, fans, and other devices on or off using your Vantage Pro2 or Vantage Vue weather station. Software walks you quickly and easily through the choices — yet the possibilities are almost unlimited! For each of four outputs, you can enter up to eight different weather parameters. Enter threshold values for each, select from nine different test conditions, and link the entries together as you choose. For example, you could activate a fan to cool your house — but only if the difference between the inside and outside temperatures is more than 5ºF, it's more than 72ºF inside, and it's between 5:00 p.m. and 6:00 a.m. The connector block provides the interface between your weather station and an electrical device. For high-power devices, you may also need to add electrical relays.

Order No.	Mfg. PN	Description	Price
E86432	6544	WeatherLink for Alarm Output	$295.00

E-Mail / Phone Alert Software Module |

Be alerted whenever conditions approach critical — 24 hours a day, 7 days a week. Choose e-mail for detailed information on alarm conditions plus regularly scheduled updates on current weather conditions. Or choose the phone alert, with a special alarm tone telling you to check your weather station console or WeatherLink for details. May not work outside the USA.

Order No.	Mfg. PN	Description	Price
E86436	6512	E-Mail/Phone Alert Module	$35.00

Telephone Modem Adapter |

For transmission of data from any of the serial port versions of the WeatherLink data loggers using a modem.

Order No.	Mfg. PN	Description	Price
E86442	6533	Modem Adapter for WeatherLink Vantage Pro/Pro2, Vantage Vue	$7.00
E86444	7870	Modem Adapter for Weatherlink Wizard III, Monitor II	$7.00

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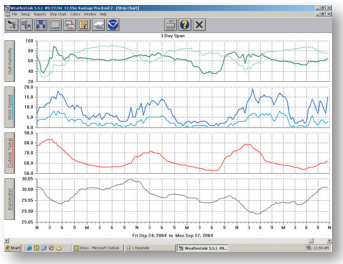

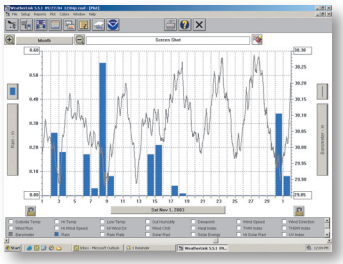

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4 Conductor Cable |

Cable Connections: Standard 4 conductor cables include waterproof coupler kits for joining two cables together, indoors or out.

Maximum Cable Lengths:

1. Vantage Pro2 Wireless and Cable stations come with a 40' cable from the anemometer to the integrated sensor suite. Can be extended using standard 4 conductor extension cables for a maximum of 540'.

2. The Solar radiation and UV sensor for the Vantage Pro2 Wireless station come with 4' when sold separately and 3' when purchased pre-installed on the Vantage Pro2 Plus stations. Can be extended using standard 4 conductor extension cables for a maximum of 125'.

3. WeatherLink for Vantage Pro2 comes with an 8' cable from data logger to serial port. Can be extended using standard 4 conductor extension cables for a maximum of 48'. For USB versions of WeatherLink, add a USB extension cable, Order No. E86420.

4. WeatherLink for Weather Wizard III/Monitor II comes with an 8' cable from data logger to serial port. Can be extended using standard 4 conductor extension cables for a maximum of 50'.

5. Weather Wizard III and Monitor II stations come with a 40' console to anemometer cable. The wind speed reading decreases as length of cable from anemometer to console increases (including junction box cable). At 140', maximum speed is 175 mph; at 240', maximum speed is 140 mph; at 340', maximum speed is 70 mph. The accuracy of readings below the maximum are not affected.

6. Weather Wizard III and Monitor II stations come with a 40' rain collector to console cable. Can be extended using standard 4 conductor cable for a maximum of 900'. This includes the cable from junction box to console.

7. Weather Wizard III stations come with a 25' temperature sensor to console cable. Can be extended using standard 4 conductor cable for a maximum of 300'. This includes the cable from junction box to console.

Order No.	Mfg. PN	Description	Price
E86152	7876-008	Standard 4 Conductor Cable, 8'	$10.00
E86153	7876-040	Standard 4 Conductor Cable, 40'	$18.00
E86154	7876-100	Standard 4 Conductor Cable, 100'	$40.00
E86155	7876-200	Standard 4 Conductor Cable, 200'	$70.00

6 Conductor Cable |

Cable Connections: The standard 6 conductor 40' extension cable includes waterproof coupler kits for joining two cables together, indoors or out. May also be joined using Surge Protectors.

Maximum Cable Length: The rain collector heater comes with a 50' cable. Maximum cable length is 120' from power unit to AC-power adapter. Requires terminal block.

Order No.	Mfg. PN	Description	Price
E86156	7878-040	Standard 6 Conductor Cable, 40'	$22.00

8 Conductor Cable |

Cable Connection: To join standard 8 conductor cables use an 8-pin cable coupler (for indoor use only). Order No. for 8 pin coupler is E86160. May also be joined using surge protectors

The Weather Wizard III and Monitor II come with an 8' console to junction box 8 conductor cable. Maximum length using extension cables is 125'. If using a protected junction box, cable can be extended 200'.

Order No.	Mfg. PN	Description	Price
E86157	7880-025	Standard 8 Conductor Cable, 25'	$15.00
E86158	7880-050	Standard 8 Conductor Cable, 50'	$25.00
E86159	7880-100	Standard 8 Conductor Cable, 100'	$45.00
E86160	7959	Eight Pin Cable Connector	$ 5.00

Anemometer Replacement Parts |

Order No.	Mfg. PN	Description	Price
E86252	6410	Anemometer Kit for Vantage Pro and Vantage Pro2	$135.00
E86254	7911	Anemometer Kit includes both wind speed and wind direction sensors, 40' (12m) cable for Weather Wizard III and Weather Monitor II.	$130.00
E86256	7904	Wind Vane for all Anemometers (Except Vantage Vue)	$ 10.00
E86258	7903S	Wind Cups - Small 2002 and earlier (Vertical Magnet)	$ 12.00
E86260	7903L	Wind Cups - Large 2002 and earlier (Vertical Magnet)	$ 12.00
E86262	7905S	Wind Cups - Small 2003 to present (Horizontal Magnet)	$ 12.00
E86264	7905L	Wind Cups - Large 2003 to present (Horizontal Magnet)	$ 10.00
E86266	7908	Drip Rings for all anemometers 2/Pkg	$ 2.00

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Vantage Vue Replacement Parts |

Order No.	Mfg. PN	Description	Price
E86267	07342.178	Wind Cups	$ 10.00
E86268	07345.297	Wind Vane	$ 10.00
E86269	07350.506	Bubble Level	$ 1.00
E86270	07342.199	Rain Collector Debris Screen	$ 1.00
E86271	07345.280	Rain Spoon Assembly	$ 15.00

Junction Box |

Replacement Junction Box for Weather Wizard III and Weather Monitor II.

Order No.	Mfg. PN	Description	Price
E86170	7932	Junction Box	$12.00

Rain Collector |

This self-emptying tipping bucket design is exceptionally accurate. Choose 0.01 in. or 0.2 mm increments. For use with the Weather Wizard III and Weather Monitor II Stations. Due to the self-emptying action, the rain collector can be left outside during extreme cold weather. (See rain collector heater on Page 94 for use in cold climates.)

Order No.	Mfg. PN	Description	Price
E86026	7852	Rain Collector II	$75.00
E86029	07342.031	Rain Collector Debris Screen	$ 2.00

NEW

Watchdog Sprayer Station

Effective management of pesticide drift is increasingly important to pesticide applicators. Now you can monitor and data log weather conditions with the ultrasonic WatchDog Sprayer Station. Accurate data helps pesticide applicators make important decisions regarding weather conditions that affect safety, drift, and proper pesticide application. User controlled data logging of weather conditions provides evidence of suitable conditions for pesticide application.

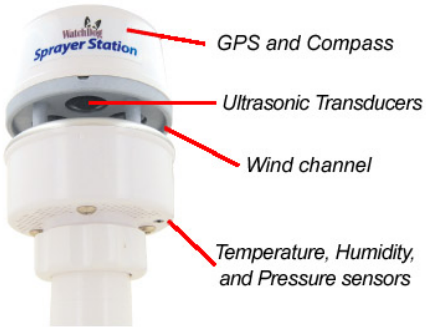
Smaller than a can of soda, this all-in-one weather station measures air temperature, humidity, dew point, wind chill, barometric pressure and apparent wind speed and direction. It handles adverse conditions with a UV stabilized, compact housing that is fully waterproof and resistant to chemicals. Reliability is enhanced by eliminating moving parts: the traditional wind vane and cups have been replaced with ultrasonic transducers.

The WatchDog Sprayer Station is more than a compact and capable weather station. While on-the-go, the station uses its internal compass and GPS to adjust the wind sensor values by subtracting the vehicle speed and direction to compute the true wind speed and direction.

Display current conditions: wind speed & direction, temperature, humidity, barometric pressure, and GPS parameters (vehicle speed & direction, location, and satellite signal strength). Continuously log your weather parameters at a user-selectable rate or hit the snapshot button to capture current conditions.

SPECIFICATIONS FOR SPRAYER STATION

Wind Speed Range: 0.6 to 114 mph (1 to 184 km/h)
Wind Speed Resolution: 0.1 mph (0.2 km/h)
Wind Speed Accuracy: ±1.1 mph (±1.9 km/h) or ±4% @ 32-122°F (0.50°C)
Wind Direction Resolution: 1°
Wind Direction Accuracy: ±1.5° above 32°F (0°C)
Operating Temperature: -22°C to 122°F (-30° to 50°C)
Temperature Accuracy: 2.7°F (±1.5°C) with wind above 2.3 mpg (3.7 km/h)
Relative Humidity Range: 10 to 95%
Relative Humidity Accuracy: ±5% with wind above 2.3 mph (3.7 km/h)
Barometric Pressure Range: 25 to 34 in-Hg (850 to 1150 hPa)
Barometric Pressure Accuracy: ±1.5%
Power Supply Voltage: 10 to 16 VDC



Order No.	Mfg. PN	Description	Price
E85550	3349SSC	The WatchDog Sprayer Station with Console includes the sensor unit with magnetic mount, display console with built-in data logger, CD with all software, 21ft(7m) cable with vehicle power and serial connectors.	$2,095.00
E85551	3349SS	The WatchDog Sprayer Station includes the sensor unit with magnetic mount, display/logging program for Windows Mobile PDA or Windows Laptop, 21ft(7m) cable with vehicle power and serial connectors.	$1,695.00
E85552	3349CN	The WatchDog Sprayer Station Console includes display console with built-in data logger, CD with all software, 21ft(7m) cable with vehicle power and serial connectors. Console displays & logs conditions and downloads them to your PC	$ 449.00

Things to consider when purchasing an electronic weather station.

1. What weather variables are measured and recorded?

Most other stations offer barometric pressure, outside humidity and dew point, daily and yearly rainfall, wind speed and direction, wind chill, and outside temperature. Some also offer inside temperature and humidity, and a few even give you extra outside temperatures and rain rate. Only Vantage Pro2 gives you all these, plus:

- Additional Rainfall Information: 15-minute, hourly, and monthly rainfall, and rainfall amounts for each of the last 24 storms.
- Additional Wind Speed Information: 10-minute average speed, direction of high speed, and 10-minute dominant wind direction.
- Apparent Temperature: Heat index and, with a solar radiation sensor, temperature-humidity-sun-wind index.
- Optional Solar and UV Radiation Sensors for greater awareness of the dangers of excessive exposure to the sun.
- For agricultural users, optional evapotranspiration, leaf wetness, soil moisture, and soil temperature.

2. How easy is it to set up?

With most competing stations, you need to install each sensor separately, which adds complication and takes time and effort. Vantage Pro2 is factory-assembled to make setup as easy as possible. Just complete a few minor assembly steps, insert the battery, and you're ready to mount the sensor suite. Mount the two sides together using the optional tripod, or detach the anemometer to mount it separately. Flexible mounting options make it easy, either way.

3. What is the maximum transmission distance?

The wireless transmission range for most competing stations is generally quite limited. Although range is highly variable (depending not only on the physical features of the land and structure but also on RF interference in the area), Vantage Pro2 will almost always out perform the competition. And Davis offers wireless repeaters should you wish to extend the range even further.

4. How many highs and lows are measured and recorded?

Most other stations simply give you the current readings. If highs and lows are available at all, they are usually quite limited. Only Vantage Pro2 gives you the highs and lows (and/or totals or averages) for just about all weather conditions, with time and/or date for the last 24 days, months, or years. No other station on the market even comes close. And not only can you view the data numerically, you can also view on-screen graphs, for instant visual representations of long-term trends.

5. How often is the information updated?

The Vantage Pro2 transmitter sends data to the console every 2½ seconds. Highly variable conditions (such as wind speed and direction) are updated with each packet, while less variable conditions are updated every 10 seconds. With competing stations, the update interval is much longer: 30 seconds, or even up to 3 minutes. This may not seem important. But try watching the wind gust, or the rain suddenly come pouring down. It's very disconcerting to look out the window, see something happen weather-wise, and not see it reflected on the console right away.

6. How is the forecast generated?

The competition generally bases their forecast on barometric pressure alone, which results in none too accurate a prediction. Vantage Pro2 uses a sophisticated forecasting algorithm which takes into account not only barometric pressure, but also wind, rainfall, temperature, humidity, and longitude and latitude. The result? A much more accurate forecast. Not perfect, but even the guys with the satellite pictures don't always get it right!

7. How is the forecast displayed?

Competing stations use icons to show the forecast. Vantage Pro2 has similar icons, plus over 80 different forecast messages that scroll across the bottom of the display. None of the other stations have this. The ticker tape also gives additional information depending on which key you press. Press WIND to display wind speed, and you'll get a message showing the 10 minute average wind speed. If it's raining, press RAIN YR to see the last 15 minutes of rain, or RAIN DAY to see the last 24 hours of rain. And these are just a few examples! None of the competing stations have anything like this.

8. How much data can you graph on the screen?

With Vantage Pro2, you can graph just about every weather variable, with averages and highs and lows for most, and go back in time for minutes, days, months, and years. The competition typically graphs just one variable—barometric pressure—and typically just for the last 24 hours. With all the graphs on Vantage Pro2, you can do tons of analysis, even without purchasing a software package. You'll find that the more dramatic the weather is, the more fun it is to look at the graphs. Just how windy is it, and how does it compare to the last wind storm? How much rain did we get this month, as compared to last month?

9. Can you use the station at higher elevations?

Davis stations can be used up to 15,000 feet in elevation. Many competing stations are limited to 6,000 feet or below. If you're lucky enough to live and work—or perhaps enjoy a vacation home—in the mountains, you'll find that the Vantage Pro2 weather station works just fine, no matter what the elevation.

10. Is there a computer interface?

If you'd like to do even more analysis, add a WeatherLink data logger and software package. The data logger stores data at the interval you choose (from one minute to two hours) for up to six months. Transfer the data whenever you like, or leave your computer on to have it transfer automatically every day. For some competing stations, no software package is available. Other stations do offer software, but don't include a data logger—so your PC must be on and the software running at all times.

11. How many alarms are there?

With Vantage Pro2, alarms can be set for just about every weather variable, for just about any reason imaginable—up to 70 alarms in all. The alarms found on competing stations are generally quite limited.

12. What is the accuracy, resolution, and range?

Vantage Pro2 generally beats the competition in accuracy, resolution, and range. It can be difficult to find the specs for competing stations. When found, the testing shows that they are a bit, shall we say, optimistic. Davis is proud to publish their specs in their catalog and on their website, and stand behind them 100%.

13. How many people are using the stations?

There are many, many thousands of happy Davis weather station users around the country and around the world. Check out "Weather World 'Round" on their website (www.davisnet.com/links), and you'll see a listing for Norman, Oklahoma. Click on the link, and you'll go to the website for the National Weather Service's Storm Prediction Center. They're using a Davis Weather Monitor II to update the local "unofficial" weather conditions to their website. Many other Davis weather station owners participate as volunteer observers for the National Weather Service, the National Hurricane Center, and numerous local TV and radio stations.

14. How long has the company been in business?

In business since 1963, Davis Instruments opened up the home weather station market back in 1989. Their weather stations are manufactured in Hayward, California, and they have a full customer service and support staff. Most competing stations are made overseas, and it can be difficult (if not impossible) to get any kind of customer service or aftermarket support.